NEWSLINE

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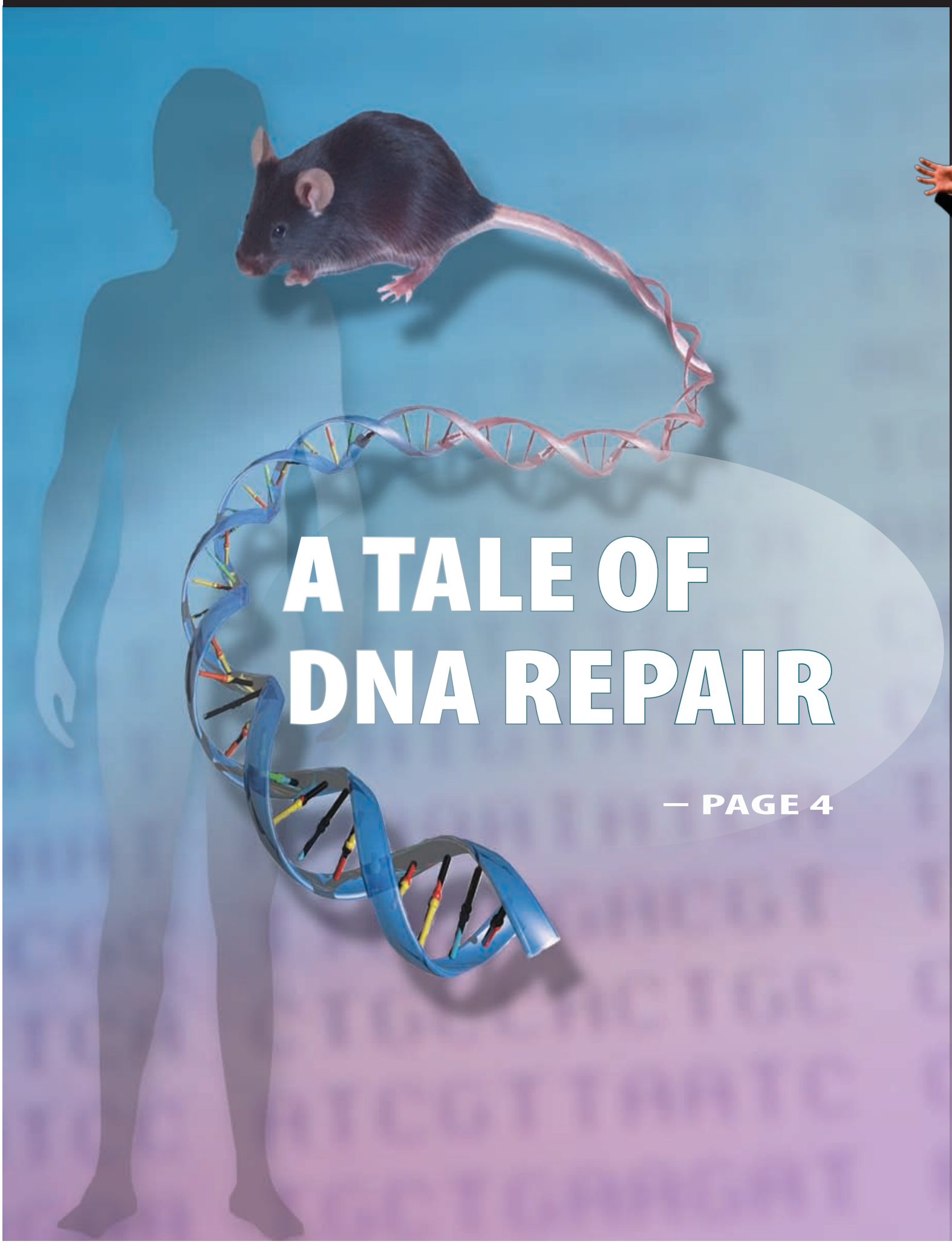

A TALE OF DNA REPAIR

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Miller and Liedle to hold all-hands meeting Nov. 12

George Miller

Director George Miller and Deputy Director Steve Liedle will hold an all-hands meeting at 10:30 a.m. Monday (Nov. 12) to address budget concerns and ongoing transition-related items.

In their address, Miller and Liedle will discuss the status of the fiscal year 2008 federal budget, new costs under the new contract, salaries, review of the current workforce and development of business plans.

The meeting will be held in the Bldg. 123 auditorium and broadcast live on Lab TV, channel 2 and in the auditoriums of Bldgs. 155, 453, 481 and 543. The meeting also can be viewed on the Lab portal by clicking on the My Page tab. Under My News Links access Fox Live Online or CNN Live Online in the external news links folder, national news.

Steve Liedle

Lab to host annual signal and imaging science workshop next week

The Center for Advanced Signal and Image Sciences (CASIS) Conference will be held next Thursday and Friday, Nov. 15-16, in the Bldg. 482 auditorium. There will be a full program of talks in the signal, imaging, and communications sciences, which will allow attendees from LLNL, UC and elsewhere to share accomplishments and ideas. Jitendra Malik of UC Berkeley will be the keynote speaker on Thursday at 9 a.m. He will speak about "Recognizing Objects and Actions in Images and Video."

There will be a minimal fee for food this year. While the Engineering Directorate is supporting the administrative overhead, changes in allowable expenses under the new contract mean that CASIS is unable to supply hospitality. The CASIS staff has offered to help assemble a great array of food at a very low cost, so there can still be an informal technical exchange outside the conference room. Attendees are asked to pay $5 per day for attendance to offset the cost of the food.

For more information and a schedule, go to the Web at https://casis.llnl.gov. For general information, contact Vickie Abreu, 2-1220. For technical information, contact Steve Azevedo, 2-8538.

Abandoned Mine Lands delegation seeks Laboratory partnership

A team of engineers and managers from the Abandoned Mine Lands (AML) department in Window Rock, Ariz. visited the Laboratory recently to discuss the remediation of abandoned uranium mines and other environmental issues facing the Navajo Nation.

The visit was arranged by LLNL's Steve Grey, American Indian Program manager, and hosted by the Office of Strategic Diversity programs within the Director's Office.

"The Navajo Nation and the Laboratory have a long standing relationship," said Tommy Smith, deputy associate director, noting that the Laboratory has established a field office at Diné College to assist tribal organizations with environmental issues they confront.

During their two-day visit, the AML team met with representatives from Environmental, Safety, Health and Quality, Chemistry, Materials, Earth & Life Sciences who provided technical presentations. Brad Esser, who arranged the talks, said that "in areas as large as the Navajo Nation, uranium finger printing can be critical." Finger printing is the ability to distinguish background uranium from processed uranium.

Navajo Nation has four major Uranium Mill Tailings Remedial Action (UMTRA) sites monitored by the federal government. The Navajo Nation is approximately 27,000 square miles spread across three states — Arizona, New Mexico and Utah. AML officials said they would like the Lab's assistance in preparing technical proposals to address the uranium problem.

AML is the department within the Navajo Nation Division of Natural Resources that implements, administers and conducts the reclamation of abandoned mine lands (AML) within the Navajo Nation. The stated mission of the AML Department is to "to protect, restore, enhance and reclaim abandoned mines, ensure the long-term stability of all UMTRA sites, and provide adequate public relations for the benefit of the Navajo people and the environment." The department also is planning public facility projects to stimulate economic development in communities impacted by past and current mining activities.

The AML team discussed with scientists how the Laboratory monitors movement of uranium under and above the ground and the potential impact to surrounding areas such as groundwater, air particulates and soil. Over the years, many Navajo families have asked questions about how the remote waste sites impact their communities and grazing areas.

While at Livermore, the AML delegation also toured the National Ignition Facility and the Terascale Simulation Facility.

PHOTO BY JACQUELINE MCBRIDE/NEWSLINE

From left to right: Rose Grey, Steve Grey, Gilbert Dayzie, Brad Esser, Ernest Greyeyes, Madeline Roanhorse, Ray Tsingine and Melvin Yazzie.

Retired Lab physicist receives 2008 Will Allis Prize

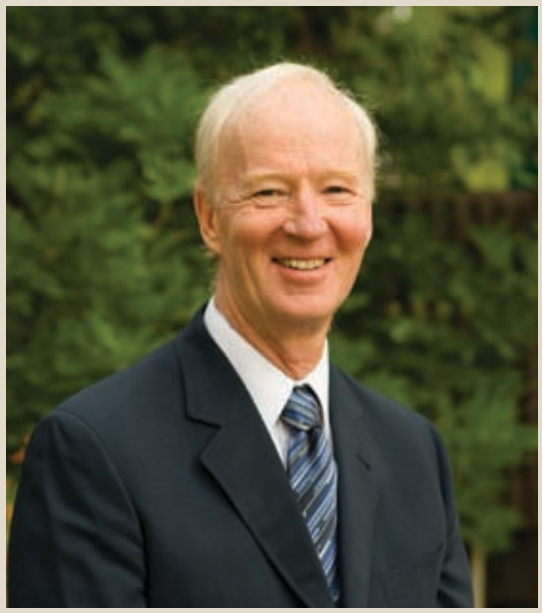
By Nancy Garcia
Newsline staff writer

Ken Kulander is excited about receiving the 2008 Will Allis Prize for the Study of Ionized Gases from the American Physical Society.

A theoretical physicist at the Laboratory from 1978-2001, he became a fellow of the society in 1989.

"I've always been interested in how quantum mechanics works fundamentally," he said. This approach provides the mathematical framework that describes and predicts atomic and molecular behavior.

"I've been interested in looking at the interactions between electrons, atoms, molecules, light — most recently involving ultra-short laser pulses — to understand quantum mechanical processes occurring during collisions, trying to follow dynamics in time."



Ken Kulander

He earned a bachelor's degree in math from Cornell College in 1965 before taking a doctorate in physical chemistry at the University of Minnesota in 1972. He completed two post-doctoral fellowships before coming in 1978 to the Laboratory's Lasers Program, joining the Theoretical Atomic and Molecular Physics Group. In 1986, he became group leader and stayed with that group, interspersed by two sabbaticals that included a sojourn at the Max Planck Institute for Quantum Optics, until his retirement. He continues to collaborate with experimental groups in between time spent on reading, hiking and traveling.

During his career, Kulander published more than 100 research papers, mainly in *Physical Review, Physical Review Letters* and the *Journal of Chemical Physics*. His work entails looking at the wave function of electrons and solving the Schroedinger equation for its time evolution. The dynamics being mathematically described take place over 1 x 10-13 to 1 x 10-16 second. By the end of the 1980s, he started looking at short-pulse laser processes. Outer electrons are energized by strong fields in intense laser pulses, flying off to leave an ionized molecule or atom.

It was around that time that the technology began making exceptional progress. "It just got better and better," he said. "The laser technology really sort of moved to us because as the pulses got shorter it was easier to do the work. Computers got faster, laser pulses got shorter, and we were able to do full representations of the detailed processes to see how you can transfer energy."

Typically he has studied hydrogen, helium or rare gases. "The problem is getting a system that is simple enough to represent accurately, but not so simple that someone can't test it," he explained. One contribution was to understand that when an atom receives a really intense laser pulse, it emits light at the harmonics of the laser frequency. The emitted wavelengths will be much shorter than that of the pulse exciting the atom.

"You end up with attosecond pulses of a few times 10-18 seconds, which you can use as a source for experiments. If you can look at something on the attosecond timescale, then you can actually freeze electronic motion, you can take flash photography, as it were, of the dynamics during the atomic collisions."

The goal is to understand how the dynamics result in product states. The laser creates strong, ionizing fields that reach energies higher than that of plasma, he said, delivering from 1 x 1012 to 1 x 1021 watts per square centimeter.

"Today pulses are so short," he said, "there's not more to uncover (in simple molecular or atomic systems). We've really fully characterized what's going on in systems where only a single electron interacts with the field. A major frontier is looking at the role of multi-electron correlations in the ionizing processes."

His calculations, written in Fortran, generally take 20-40 hours to compute on high-performance platforms. "Really the push is to get efficiency in your solutions," Kulander noted. His research, he added, "is really a fundamental approach to solving things, and I've applied it to many things."

He worked on the laser isotope separation program and in short-pulse laser studies, moving to Chemistry, and then to the Physical Sciences Division in 1983, from which he retired.

Much of his research was supported by Laboratory Directed Research and Development, with some small funding from NATO and the National Science Foundation. He has collaborated as a Laboratory guest with Brookhaven National Laboratory and NIST.

"Experimental groups are really interested in understanding what their measurements are telling them," he said. The award, he adds, "is extremely gratifying — it says that I and the people I worked with did a lot of good things."

The award will be officially announced in March and presented at the May 27-31, 34th annual meeting of the Division of Atomic, Molecular and Optical Physics at State College, Penn.

REMINDERS

Old institutional Web to be retired Dec. 1

The old Institutional Web Infrastructure, both internal and external, will be retired on the weekend of Dec. 1. All Websites hosted on that infrastructure must be migrated to the new Web infrastructure by 5 p.m. Friday, Nov. 30. The file servers will continue to be available in December for file retrieval only.

If you currently own or manage a Website on the old Institutional Web and have not made plans to move it to the new Institutional Web, contact your Institutional Web Directorate Point of Contact at https://portal.llnl.gov/portal/page/portal/IWRC/ORG_CONTACTS

If you have questions or would like more information about the project, contact the Institutional Web IT Group or visit the Web Resource Center.

Update on compliance deadline for Sexual Harassment Prevention training

The course, Sexual Harassment Prevention for Supervisors (PS-009-W), is now available on the Web. Supervisors are required to take the course once every two years. They will automatically be notified through LTRAIN when they fall into the two-year refresher cycle.

Employees with questions about the material presented in the training or LLNS' policy and procedures on a harassment-free workplace may contact Bob Perko at 2-9501. Technical support issues about the course should be addressed to EODD at 4-2728.

SCIENCE NEWS

Proof of conception: Eggs edit DNA errors

By Nancy Garcia
Newsline staff writer

Once again, here is something to blame on moms: research published in the Oct. 29 issue of the *Proceedings of the National Academies of Science* shows that maternal DNA-repair efficiency is responsible for the extent that DNA defects from sperm persist in embryos.

The research in mice, in which specific DNA-repair genes were missing, was conducted at the Laboratory by biomedical scientists Francesco Marchetti and Andrew Wyrobek, now researchers at Lawrence Berkeley National Laboratory. Marchetti said he was surprised by the degree to which the effect occurred. In the most extreme case in mice of the *scid* line, which are missing an important DNA repair enzyme, developing zygotes (fertilized eggs) possessed twice as many chromosomal aberrations.

Marchetti and colleagues hypothesized that when developing sperm are exposed to a mutating agent, damaged DNA in the fertilizing sperm is converted into chromosomal aberrations in embryos unless the anomalies are repaired soon after fertilization. They tested their hunch by exposing the male mice to ionizing radiation, which tends to break double-stranded DNA, seven days before the mice were mated.

Eggs provide essentially all the cellular machinery for the developing zygote, since mature sperm consist of little more than a packet of chromosomal material. This machinery includes DNA repair enzymes, which spot and fix errors such as breaks in the strand of genetic material.

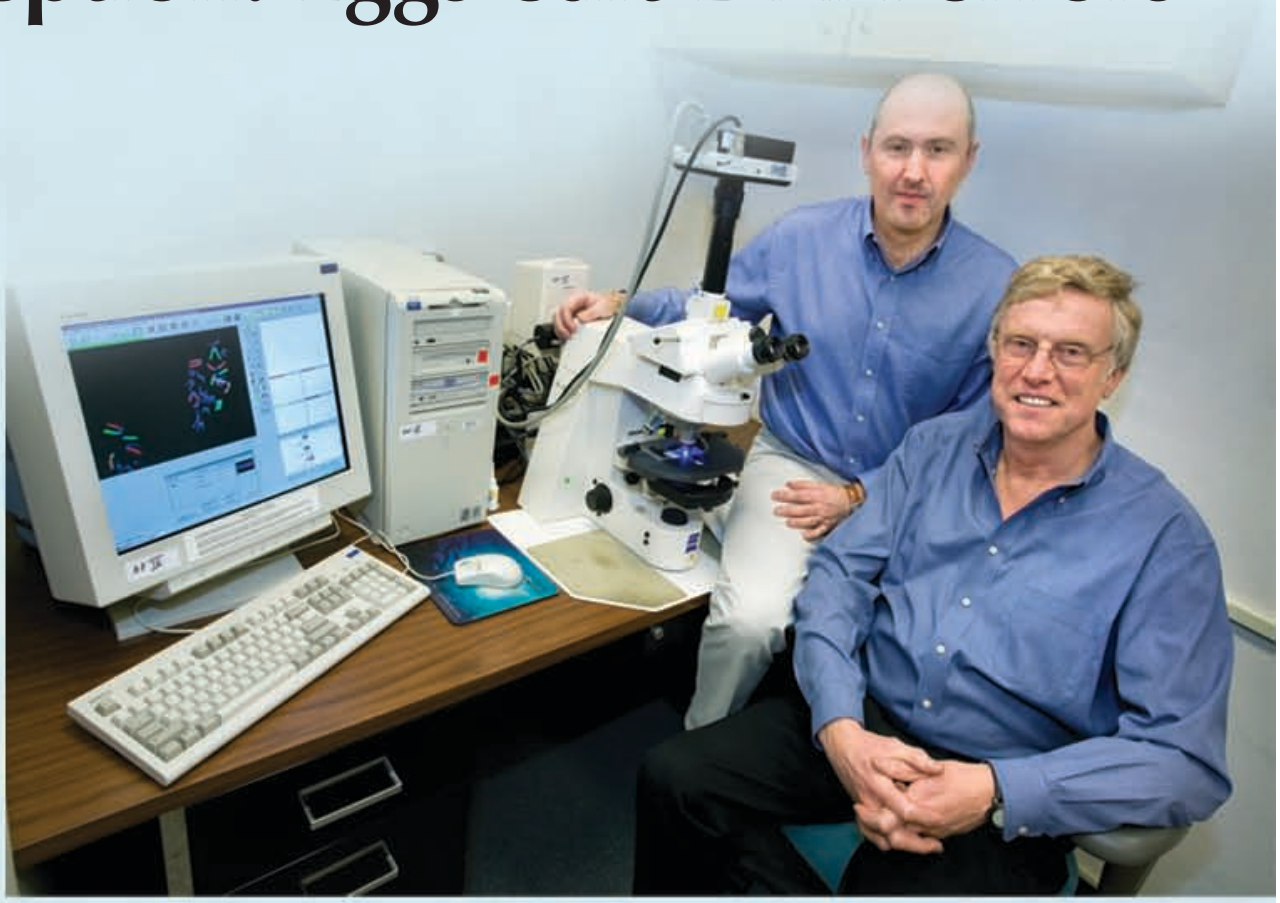
Previously, the maternal mechanism responsible for preventing aberrations in the fertilizing sperm had not been pinpointed, Wyrobek said. In the mouse, the maternal DNA repair enzymes function in the fertilized egg until it has reached a two-cell stage and the zygote's gene activity takes over, creating its own array of cellular functions. This transition occurs at a slightly later stage in humans.

While some variation derived from mutation may confer traits that enhance adaptation of the offspring, in most cases a new mutation is associated with pregnancy loss, developmental defects, infant mortality, infertility and genetic diseases in the offspring. Mutations may be transmitted by either parent. The types attributed to a mix-up in the original DNA sequence, possibly caused by faulty repair, are more frequently traced to the father's sperm.

Despite the news that DNA repair function in the egg is crucial just after fertilization, Marchetti said, the results also underscore that men who are intending to start families can take care to avoid exposures that might damage DNA in developing sperm. For example, he said there is growing evidence that DNA damage in sperm is elevated in men who smoke cigarettes, which can be avoided.

Next, their research team would like to explore the consequences of the more common situation, in which the mother carries a single copy of a DNA repair gene, and where the second copy is missing or nonfunctional. In this case, the extent of maternal repair of DNA damage in the fertilizing sperm is expected to vary, depending on the specific DNA repair gene that is compromised.

Their results also have implications for couples considering *in vitro* fertilization and highlight the dual importance of maintaining low levels of DNA damage in the fertilizing sperm as well as the need for highly efficient maternal DNA repair to maximize the chances of normal embryonic development and offspring.



ROY KALTSCHMIDT/LBL

Francesco Marchetti and Andrew Wyrobek pose next to micrographs (on the screen) of mouse chromosomes.

On the cover

A tale of DNA repair: eggs are important in repairing damaged DNA of fertilizing sperm, mice research at LLNL shows.

Lab scientist sows wild oaks

By Nancy Garcia
Newsline staff writer

Planting acorns was an idea that has grown on John Toeppen, one that he is propagating among his friends and acquaintances.

A native of the Midwest, he has seen elms and maples he planted as a child in the Chicago suburbs grow to arch over the street. His acorn planting started a couple of decades ago when his father, a pilot, came to visit after a barbecue in Southern California, bringing a couple of black oak acorns which Toeppen's sons sprouted. One of the trees stands 30 feet tall at the house they occupied at the time.

"They thought it was cool," Toeppen said.

Later he scooped up sizeable acorns from under a spreading oak in Dublin. The boys sprouted 28 seedlings and planted them along Patterson Pass Road, where 22 of them are now more than 20 feet tall. The row of plantings was extended later by municipal workers and volunteers who installed nursery saplings. At the time, he envisioned the trees would dampen traffic noise, as well as improve air quality.

Toeppen would love to see the non-native eucalyptus that are being removed around this area being replaced with long-lived, locally adapted species such as these.

"From September through December you can find acorns, buckeyes and bay berries," said Toeppen, a former arborist who has constructed lasers at the Lab and writes export control documents.

He realized that just broadcasting the acorns themselves, without nursing and transplanting seedlings, can be extremely effective. He put together photos illustrating his techniques and the role of animals at: http://www.celutek.com/holographics/oakseedling.html. One image shows acorns stored in holes drilled by woodpeckers in the side of a tree, where they would never stand a chance of sprouting.

John Toeppen

He attributes the presence of older oaks in the valley to resident Native Americans, who relied on acorns as a major source of nourishment. He notes that valley oak and black oak, whose acorns were favored as food, occur almost exclusively in areas that were inhabited. "Maybe these always have been planted, the impact of animals and grasses may be less than we thought. Some of the 200-year-old oaks on Brushy Peak appear to have been planted in rows."

He was surprised when he moved to California 24 years ago to see residents cutting down their street trees, and finds it sad that the area has few oaks younger than 150 years old. It is said that once one could walk from Livermore to Pleasanton without leaving the shade of an oak. While older hollowed trees are often removed for safety, they actually provide food and shelter for a wide variety of animals.

His hikes have taken him into hidden canyons where rock mortars mark Miwok and Volvon village sites. Some sites have dozens or even hundreds of grinding holes, rock walls and stone acorn caches. Such places provide insight as to how the Native Americans must have lived. "It's kind of like playing National Geographic explorer in your own back yard," Toeppen said.

Sometimes he'll ascend a peak with a shopping bag of acorns to toss and bury along the way. He likes to gather acorns from older trees that have adapted in adverse settings, believing that they possess some of the best genetics. To keep young saplings from grazing animals, he likes to hide acorns into underbrush, where there is also a greater chance the young plants will have more moisture in the low shade.

"They'll sometimes send a tap root down three feet before they even send a sprout four inches above the soil," he said. "It's really amazing how trees can live as almost bare twigs on slopes until they get a wet year and take off."

Sometimes on a drive, Toeppen and a friend will distribute acorns through the window, aiming them at fence posts in hopes the seedlings will be protected there from grazing animals. Although he enjoys feeling that one person can make a big difference in the long run, he distinguishes himself from Johnny Appleseed, who spread apple trees and brought hard cider to the Ohio Valley.

"My motivation is habitat restoration," Toeppen said. "In the Bay Area, we slice and dice our landscape. We need a diversity of trees to make pocket habitats. The question is, how can we each easily leave a positive environmental legacy? I'm interested in having people embrace the notion that they can simply do something. Fifty-year-old people can plant a tree from a seed and live to sit in its shade."

He said that although some trees may persist for years in unfavorably dry spots at the height of a bonsai, he has seen seedlings rocket skyward more than three feet a year with enough moisture.

His interest took on a life of its own as he shared his enthusiasm with friends as they roamed open spaces, or with Boy Scouts whom he taught to plant California buckeyes one year when acorns were sparse.

He also has become friendly with workers tending nursery seedlings along the roadsides and with park rangers, with whom he germinated the concept of directly planting acorns. Rangers have organized volunteers to gather them up for that purpose.

"Maybe one in 10 will make it," Toeppen said. "When you plant an acorn, you haven't planted an oak, you have enabled an oak. The acorns are designed to sprout and thrive in the right locations. You want to create a series of improbable events causing oaks to sprout where there are no parent trees."

To leave evidence that Mother Nature had a helping hand, he occasionally adds an unusual red oak or cork oak acorn to the mix, to encourage future visitors to surmise that someone must have planted the trees that sprout from his efforts.

"Part of the idea is, I don't know if we came from a garden, but why not make one out of this?"

i.want ads

Due to the high quantity of ads and space limitations, these want ads have been abbreviated. For the complete ad listings, refer to the internal Website: http://www-r.llnl.gov/pao/news/ wantads.html or for the latest pdf download and retiree information, see the external Website: http://www.llnl.gov/pao/employee/. Please note that these ads appear on the Web. **Date of ads: Approx. Oct. 25 to Oct. 31. Ads appear on the Web for seven days.**

Automobiles

1986 Dodge B-150 8 Passenger Van $10,000. 138K miles. 925-443-8253

1994 Honda Civic EX coupe $3,800. 135K miles. 209-835-4827

1995 Chevy Impala SS $9,900. 106K miles. 209-823-5573

1995 Isuzu Rodeo 4WD LS $3,000 OBO. 97K miles. 925-371-0828

2003 BMW Z4 $27,000 OBO. 19K mi. 209-629-4122

2004 Ford Taurus SES $7,500 OBO. 44.5K miles. 925-294-9651

2005 Honda Pilot EX $25,500 OBO. 925-447-3364

1972 Ford Pinto Squire Station Wagon $600 OBO. 925-634-4974

Boats

26′ Clipper Marine Sailboat w/Trailer $2,800. Also, 1998 Evinrude long shaft, 9.9 Yacht Twin motor, $1,000. 209-824-3968.

Fishing boat $1,500 OBO. 209-824-5727

Electronic Equipment

65″ Hitachi Widescreen HD-ready projection TV $325. 925-373-9276

Canon XT Digital SLR Camera and Lenses. $106. 925-846-3653

Futura 18″ computer monitor, $300 OBO. Panasonic plain paper fax/phone/copier. $500 OBO 510-792-138

Logitech X-530 5.1 Powered surround/computer speakers $25. 925-294-8302

Tower computers $25. Two - use for parts. 925-735-6002

Tripod $65. Camcorder fluid head tripod. 925 -735 -6002

Giveaway

Desk, maple wood finish. 925-964-0534

Free moving boxes. Mostly medium and small sizes. 925-454-9224

Kamik snow boots girls size 2. 925-294-8302

Old Shubert Upright piano 925-447-5982

Household

Antique dining room table w/ 6 chairs $500. 925-321-1265.

Bedroom furniture. 3-drawer vanity with gold trim. $25 OBO. 925-449-5481

CalKing Simmons box spring $85. 925-373-9276

Computer cart $25. Made by Bush. 510-653-1017

Entertainment center / recliner $1,500 OBO. 510-792-1538

Ethan Allen entry hall cabinet $500. W/storage & mirror, cherry mahogany. 925-447-0351

Evenflo Exer-saucer $30. 925-876-5188

File drawers $35. 925-640-5469

Furnace filters. New 925-735-6002

Girls Wood Toybox $30. 925-487-8506

Graco Baby Einstein exer-saucer $50. 925-876-5188

Kenmore Washer & Dryer. $100 each or $200 for both. 925-964-0534

Keller 8′ aluminium stepladder model 928, $25. 510-653-1017

Ladder Shelves. 925-640-5469

Laura Ashley shams $30. 925-876-5188

Oak entertainment center $60. 925-455-4484

Pottery Barn drapes $35 each. Take all four for $120. 925-876-5188

Pottery Barn holdbacks $15 each. Take all four for $50. 925-876-5188

Pottery Barn Kids My First Car panels $100 OBO. 96 inches long. 925-876-5188

Queen Bedspread $25. Light blue and pink. 925-640-5469

Whirlpool refrigerator, $100 firm. Antique dresser, $50 firm. 925-447-1057

Shabby Chic glass lamp base $20. 925-876-5188

Sofa and Loveseat $250. 925-447-7088

Solid Wood Cabinet $55. 925-640-5469

Trundle bed, oak. $100. Bedding included. 209-858-438.

Twin beds, solid oak headboards, mattresses. $200ea or $350 for both. Cash only. 925-513-1786

White leather sofa bed $150. 925-321-1265.

X-mas tree $50 OBO. 9 Ft. Carolina Fir Tree. 925-308-7025.

Miscellaneous

4 tickets to Winchester Mystery House and Monterey Bay Aquarium. 925-525-6800.

Baby Trend double jogger $100. 925-876-5188

Bathroom Storage/Towel Rack $20. 925-640-5469

Bridgeport Mill $2,000. 925-447-8847

Cable-Type Snow Chains $25. Purchased for 2005 Honda Pilot. 925-846-3653

Decorations for Christmas. Musical draping bells $10, Mouse ornaments $5, Tree stand $20, Metal sleigh family $30, Floyd and Flossie $30, Musical snowman w/popup hat $20, Tree ladder $100. 925-640-5469

Fun with Dick and Jane DVD $4. Jim Carrey and Tea Leoni. 925-876-5188

Garage cabinet $20. Electric Chicago Sawsall $10, 4″ Grinder $10, 6″ Heavy Buffer $10. 209-244-8241

Golden State Warriors home game tickets $75/seat. 3 avail. Call for info. 707-746-1648

Halloween costume $5. Size 10 or smaller. 925-640-5469

Hilason Treeless Saddle $300 OBO. 209-824-6089

Holiday boutique, Saturday, Nov. 3 - 10 a.m. -4 p.m. Tracy Elks Lodge, 6400 W. 11th St., in Tracy. 209-830-9969

Redwood picnic table with bench seats, $50 firm. Weedeater Lawnmower $100 firm. 925-447-1057

Ralley Wheels $120. 73-75 Chevy Truck Ralley wheels. Also encl. Spare tire rack. 209-832-0765.

Ruby & Diamond ring $300. 925-876-5188

Ryobi Gas TrimmerPlus $35. 925-449-5481

Sheraton 4 Points, Bakersfield hotel stay $75. 925-648-0671

Spa $950 OBO. Sundance 2003 Optima model. 925-606-4365.

Motorcycles

2002 Raptor 660 $3,500. 209-368-4286

2005 Honda CRF 50 dirt bike $1,000. 209-830-9329

2003 KTM MXC 525. $4,500. 209-895-4447 Cell 925-525-416

1978 250 Honda odyssey. $1,000. 209-239-2812

YFZ 450 Quad 2006 $5,000. 209-833-3785.

Musical Instruments

1903 Chickering antique piano. $2,200 OBO. 925-634-9973

Fender Squire Strat guitar & Fender amp $85. 209-952-1247

Pets

AKC Adult Male Cocker Spaniel for adoption. Small fee. 209-543-0572

Toy Dachsund. 4 year old, loves kids. 925-373-2832 or 925-525-14

6 Cavalier King Charles Spaniel puppies. Adoption fees vary. 650-714-1612

Gelding $1,800. 13 years old. About 14.2 hands. 925-447-9651

Gelding. 14 years old. Stands 16 hands. 925-447-9651

German Shepard mix. 2 year old dog needs cat-free home. 408-957-0303

Kitty free to good home. Black/brown tortoise shell medium-long haired female, 5 months old. 925-846-9564

Pug puppies $600/each. Available Nov. 10. 209-839-0167

Reining saddle $500 OBO. Craig Johnson, 16″ seat. 209-968-2278

Recreation Equipment

Ab Mouse Exerciser $10. 925-640-5469

Bike Helmet $25. Fits really large heads 209-952-1247

Bike Jerseys $45 OBO. 3 Bike Jerseys,(Brand New) 3XL, 4XL & 6XL. 209-952-1247

Oldie Treadmill $25. Yes, it's electric, not manual. 925-640-5469

Treadmill $100. 925-606-5374

Volkl Downhill Skis/Salomon Bindings $30. 188cm; Salomon Bindings 577, 925-294-8302

Ridesharing

Modesto to LLNL. Space available $145/month. 8 a.m. - 4:30 p.m. work schedule. 209-521-9047

Vanpool riders needed from San Mateo. Work hours 8 a.m. to 4:45 p.m. Leave from under freeway Hwy 92 and 101 at 7 a.m. Call 3-9657 or 650-952-4646

Shared Housing

2 rooms for rent $675. Males preferred. 925-980-2003

2 rooms for rent - Available now $675 each. 925-454-9224

Room for rent $600. Female preferred. 925-443-3653

Room for rent $600/month. For weekday commuter. 925-337-5754

Furnished room for rent in Livermore. $600. 925-443-8448

Trailers

1993 Scamp 13-foot trailer $4,500. 925-454-8827

2004 21SW Desert Fox Toy Hauler, $18,000. 925-516-8339

Trucks

1998 Dodge Ram 1500 Quadcab 4X4 $9,500 OBO. 925-876-5588

2001 Chevy Tahoe 4WD $16,025. 67K miles. 925-462-7736

2003 Ford F150 Super Crew XLT 4x4 $19,750. 22K miles. 209-575-9946

2004 Chevy Tahoe LT/Autoride $20,000. 53k miles. 209-629-4122

Vacation Rentals

Cabin in Long Barn $150/week-Sleeps approximately 7 upstairs in the loft. 209-914-4979

Heavenly Tahoe Condo. $1,500/week. 925-686-6747

Kona Hawaii Vacation Home. 5BR/3BA. sleeps 12. 415-377-5361

Maui-Kahana Reef oceanfront 1BR/1BA condomium. 925-449-0761

Mountain Cabin near Arnold. 4BR, 2BA. 925-245-1114

Santa Cruz Beach House. 2BR, 2BA, spa. 925-245-1114

So. Lake Tahoe Vacation Rental $700/wk. 925-556-9511

South Lake Tahoe Chalet. 3BR/2BA. 209-599-4644

Tahoe Tahoma Rental $125-175/ni. 3BR/2BA. Sleeps 6-8.

Monte Rio Wine Country Rental $150/night. 925-513-4767

Wanted

2 CAL VS USC tickets (11/10). 925-449-0463

Old silver coins, currency and proof sets welcomed. Foreign and U.S. stamps. 925-449-1294

Fill dirt. Can contain concrete etc. 209-607-9141

Gym equipment needed. Will pick up the equipment. 209-814-9491

Licensed electrician. 209-607-9141

Tile cutting for slate floor. I have the tile but need to get it cut. 925-455-6785

Old/vintage mountain bike stuff. Also wanted: Mustache handlebars and Brooks saddle. 925-455-6785.

Refrigerator, washer and dryer. Affordable. 209-329-5877

LLLWA Book Sale a novel event

PHOTO BY JACQUELINE MCBRIDE/NEWSLINE

From left: Catherine Neilson, Lynn Juarez and Susan Springer

The Lawrence Livermore Laboratory Women's Association used book sale began Monday, and continues today (Nov. 9), 10 a.m.-2 p.m., in Trailer 4675, room E/F (old central cafeteria).

Books, CDs, DVDs, audio books, videotapes, cassette tapes, puzzles and games are on sale. Proceeds benefit the LLLWA scholarship fund.

For more information, contact Barbara Brooks, 3-4171, or Elizabeth Gebur, 4-3404.

Copies of commemorative photo book available

For a limited time, additional copies of the UC/LLNL commemorative photo book, "Making History… Making a Difference," are available to LLNL staff, retirees, and others that work at the Laboratory. This is an opportunity for those of you who lost your redemption card, did not receive a card, or want an additional copy of the book. One copy per person will be provided.

Between now and Wednesday, Nov. 30, you may pick up the book during normal work hours from the reception desk at the Public Affairs Office or from Florann Mahler, Bldg. 111, room 403 (an L or Q cleared area).

If you are unable to pick up the book, contact Florann Mahler at 2-9173 or e-mail mahler2@llnl.gov to arrange delivery. Also, let Florann know if you need more than one copy for work purposes.

PEOPLE NEWS

IN MEMORIAM

Charles Bender

Charles Bender, a former Lab chemist and department head, died Oct. 25, at Presbyterian Hospital in Albuquerque. He was 66.

Bender was born in Fortuna, Calif. June 15, 1941. He attended elementary school in Scotia and Fortuna, and graduated in 1959 from Fortuna Union High School.

He received a bachelor's degree in science and a master's degree in physics from the University of the Pacific in Stockton and a doctorate degree in physical chemistry from the University of Washington, Seattle. His postdoctoral work was in theoretical chemistry at Battelle Memorial Institute in Columbus, Ohio and in national and international security at Harvard University.

In 1971, Bender joined LLNL as a chemist and later was appointed head of the Chemistry and Materials Science Department. He headed the Advanced Computing Methods Center and was associate vice president for research at the University of Georgia.

In 1988, he became the first director of the Ohio Supercomputer Center. Bender founded the Coalition of Academic Scientific Computation (CASC), connecting supercomputer centers throughout the nation for the exchange of ideas and work in progress. With more than 100 scientific publications bearing his name, Bender contributed to the fields of chemistry, physics and computational mathematics. He encouraged young scientists and created opportunities for growth and leadership among the rising generation of scientific researchers.

He is preceded in death by his parents, Henry and Clara Bender. He is survived by three children, Tad Bender of New York, Tim and Tamara Bender of New Hampshire; a sister, the Reverend Dr. Kay Huggins and husband George Huggins of New Mexico, and his aunt and uncle David and Mona Conner.

A memorial scholarship fund has been established in Bender's name. Those wishing to contribute may contact Kay.Huggins@presbynet.org.

Richard Niles

Richard Niles, an employee of the Lab's Plant Engineering Department since 1980, died at his home Oct. 22, after a one-year battle with lung cancer.

Niles enjoyed sailing, horseback riding, camping, fishing, playing the guitar, working with cars, drag racing, water and snow skiing, reading and target shooting.

He is survived by his wife Betty, parents Rosemarie and Everett Niles, brothers Ken, Mike, Len and Dave, and his sister Angie.

A celebration of his life will be held Saturday, Nov. 17, from 2- 6 p.m. at Sheriff's Posse Grounds on Rawhide Road, near Jamestown. For directions, contact Sandra Mason at (925) 423-1941.

C. M. "Frenchie" Allec

C. M. "Frenchie" Allec, a Lab retiree and resident of Walnut Creek, died Oct. 30, after complications from surgery. He was 79.

Allec was born May 6, 1928, in San Francisco. He graduated from Amador Valley High School in Pleasanton in 1947 and served in the U.S. Army during the Korean War. He retired from the Lab in 1990 after 31 years.

He was preceded in death by his first wife, Bette, in 1987. He is survived by his wife of 17 years, Marie; his sister Lea Larson; his two daughters, Amy Helm and Michele Tonowski; stepchildren Janine Schiller and John, Jeff, and Joe Morey, two grandchildren and three step-grandchildren.

A memorial service will be held Nov. 16, at 11 a.m. at St. John Vianney Catholic Church, 1650 Ygnacio Valley Road in Walnut Creek. Burial will be private. Donations may be made to the Saint John Vianney Building Fund or a charity of choice.

NEWSLINE

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For an extended list of Lab beats and contacts, see http://www.llnl.gov/pao/contact/

HELPING OTHERS MORE EFFECTIVELY

The HOME Campaign is off to a fine start. As of Nov. 8, the total employee participation is 7.2 percent.

The campaign has collected more than $314,812 in the first week.

Strategic Human Capital Management is in the lead with a 18.9 percent employee participation.

LLNL donations arriving at Second Harvest Food Bank

Cori Mclean, Cindy Lewis and Dawn Stone at Second Harvest

Second Harvest canned food drive

There was a generous response to the canned food drive. Three truck loads of food were delivered to the Second Harvest Food Bank in Manteca. The agency was excited to have the supply for this upcoming holiday season. In fact, there has been continued giving in many areas of the Lab so one last drop-off took place Thursday. Any additional collected canned food should be delivered to the Bldg. 482 Lobby.

Lab blood drive

There will be a Lab blood drive Nov. 26-29 in Trailer 5675 (the old central cafeteria). Donors are encouraged to schedule an appointment in advance at https://www.beadonor.com/ and click on the word Registration. The drive sponsor code is: LLNL. Individuals without Internet access can schedule an appointment by calling the LLESA Office at 422-9402. The goal of the Red Cross staff is to complete the donation process for pre-scheduled appointments in 60 minutes or less. If your schedule does not allow you to make an appointment, the staff will work you into the schedule, as time permits, after the first hour of each drive day. Donor eligibility questions should be directed to the American Red Cross at 510-594-5143.

Lab ride IV Toys for Tots

PHOTO BY JACQUELINE MCBRIDE/NEWSLINE

About 150 motorcyclists on Thursday rode from the Lab to Site 300 during Lab Ride IV to raise funds for the Marine Corps' Toys for Tots Drive and the East Bay Stand Down 2008, a homeless veterans' outreach program.

The Toys for Tots program is sponsored at the Lab by the Lab's Fire Department. Riders donated $2,374, which will be split between the two charities.

Riders did a parade lap on Inner Loop Road before heading out East Gate and collecting the non-Lab employee riders. Riders who donated at least $20 received a Lab Ride IV pin.

The Lab's Fire Department provided a free lunch to all the riders once they arrived at Site 300. The ride was sponsored by the Lawrence Livermore Laboratory Armed Forces Veterans Association (LLLAFVA) in commemoration of Veteran's Day (Nov.11).

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